

GILA RIVER BASIN

09486300 CANADA DEL ORO NEAR TUCSON, AZ

LOCATION.--Lat 32°22'27", long 111°00'31", in SW¹/₂NW¹/₂ sec.22, T.12 S., R.13 E., Pima County, Hydrologic Unit 15050301, on right bank at upstream side of Overton Road, 4.7 mi upstream from mouth, and 10.5 mi north of city hall in Tucson.

DRAINAGE AREA.--250 mi².

REMARKS.--Lago del Oro—capacity 9,400 acre-ft—16 mi upstream, has contained no storage since May 4, 1971, as gates were opened by court order; however, peak flows are regulated while passing through the lake.

Annual peak discharge

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1959	07-21-59	¹ 17,000	ES,HP	1973	10-19-72	3,750	
1961	09-01-61	12,000	ES,HP	1974	07-20-74	7,700	
1964	09-10-64	8,000	ES,HP	1975	09-04-75	454	
1966	12-22-65	2,290		1976	09-05-76	2,220	
1967	08-05-67	652		1977	08-09-77	4,500	
1968	12-20-67	² 13,900		1978	01-16-78	2,070	
1969	07-22-69	454		1979	11-25-78	1,380	
1970	08-18-70	1,930		1980	07-19-80	4,240	
1971	08-17-71	4,200		1981	07-25-81	5,900	
1972	08-12-72	728		1984	10-01-83	6,600	

¹Highest since 1950.

²Highest since 1959.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
108	28.4	4,000	21.0	2.0	16.4	2.0	4.7

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MEAN MONTHLY AND ANNUAL DISCHARGES 1966-78							MAGNITUDE AND PROBABILITY OF ANNUAL LOW FLOW BASED ON PERIOD OF RECORD 1967-78						
MONTH	MAXIMUM (FT3/S)	MINIMUM (FT3/S)	MEAN (FT3/S)	STAN- DARD DEVI- TION (FT3/S)	COEFFI- CIENT OF VARI- ATION	PERCENT OF ANNUAL RUNOFF	PERIOD (CON- SECU- TIVE DAYS)	DISCHARGE, IN FT3/S, FOR INDICATED RECURRENCE INTERVAL, IN YEARS, AND NON-EXCEEDANCE PROBABILITY, IN PERCENT					
								2 50%	5 20%	10# 10%	20# 5%	50# 2%	100# 1%
OCTOBER	19	0.00	2.0	5.5	2.7	10.0							
NOVEMBER	0.00	0.00	0.00	0.00		0.0							
DECEMBER	88	0.00	9.8	26	2.6	49.1	1						
JANUARY	6.2	0.00	0.48	1.7	3.6	2.4	3						
FEBRUARY	2.5	0.00	0.34	0.79	2.3	1.7	7						
MARCH	5.9	0.00	0.47	1.7	3.5	2.4	14						
APRIL	0.00	0.00	0.00	0.00		0.0	30						
MAY	0.00	0.00	0.00	0.00		0.0	60						
JUNE	0.00	0.00	0.00	0.00		0.0	90						
JULY	13	0.00	1.2	3.6	2.9	6.2	120						
AUGUST	30	0.00	3.5	8.3	2.4	17.4	183	0.00	0.00	0.00	0.00	0.00	0.00
SEPTEMBER	14	0.00	2.2	3.9	1.8	10.9							
ANNUAL	7.5	0.06	1.7	2.0	1.2	100							

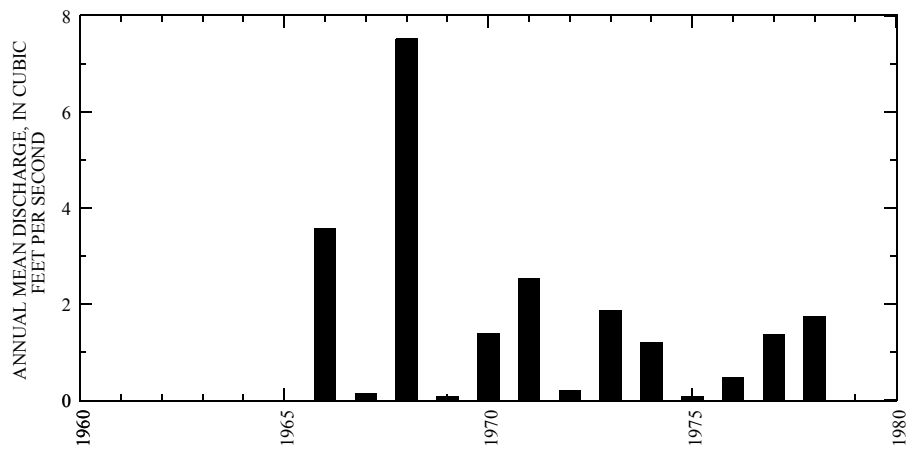
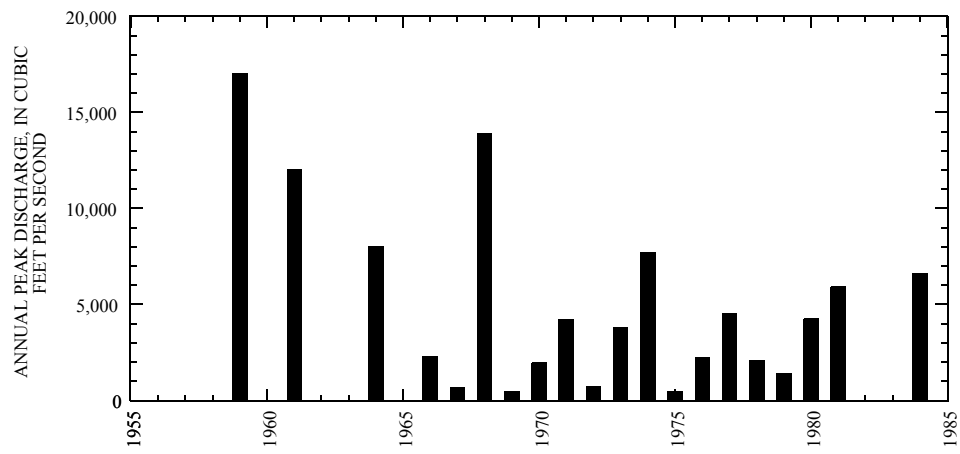
MAGNITUDE AND PROBABILITY OF INSTANTANEOUS PEAK FLOW BASED ON PERIOD OF RECORD 1959, 1961, 1966-81, 1984							MAGNITUDE AND PROBABILITY OF ANNUAL HIGH FLOW BASED ON PERIOD OF RECORD 1966-78						
DISCHARGE, IN FT3/S, FOR INDICATED RECURRENCE INTERVAL IN YEARS, AND EXCEEDANCE PROBABILITY, IN PERCENT							PERIOD (CON- SECU- TIVE DAYS)	DISCHARGE, IN FT3/S, FOR INDICATED RECURRENCE INTERVAL, IN YEARS, AND EXCEEDANCE PROBABILITY, IN PERCENT					
2 50%	5 20%	10 10%	25 4%	50# 2%	100# 1%			2 50%	5 20%	10# 10%	25# 4%	50# 2%	100# 1%
							1	140	526	1,030	2,100	3,300	4,940
							3	57	232	468	963	1,520	2,260
							7	27	109	217	440	684	1,010
							15	13	54	108	219	339	497
							30	7.7	29	55	105	155	216
							60	4.6	16	29	51	72	97
							90	3.2	11	19	33	47	63

DURATION TABLE OF DAILY MEAN FLOW FOR PERIOD OF RECORD 1966-78																
DISCHARGE, IN FT3/S, WHICH WAS EQUALED OR EXCEEDED FOR INDICATED PERCENT OF TIME																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Reliability of values in column is uncertain, and potential errors are large.

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